

***STREPTOCOCCUS PNEUMONIAE*, Drug –Resistant Invasive Disease**

I. IDENTIFICATION

- A. **CLINICAL DESCRIPTION:** *Streptococcus pneumoniae* (pneumococci) causes many clinical syndromes, depending on the site of infection (e.g., acute otitis media, pneumonia, bacteremia, or meningitis). Pneumococci are a frequent cause of sinusitis and pneumonia.
- B. **REPORTING CRITERIA:** Laboratory diagnosis
- C. **LABORATORY CRITERIA FOR CONFIRMATION:**
- Isolation of *S. pneumoniae* from a normally sterile site (e.g., blood, cerebrospinal fluid, or less commonly, joint, pleural, or pericardial fluid) **AND**
 - “Nonsusceptible” isolate (i.e., intermediate- or high-level resistance of the *S. pneumoniae* isolate to at least one antimicrobial agent currently approved for use in treating pneumococcal infection as defined by the National Committee for Clinical Laboratory Standards).
- D. **KENTUCKY CASE DEFINITION:** A clinically compatible case that is laboratory confirmed.

II. ACTIONS REQUIRED / PREVENTION MEASURES

- A. **KENTUCKY DISEASE SURVEILLANCE REQUIRES ROUTINE NOTIFICATION:**
REPORT TO THE LOCAL OR STATE HEALTH DEPARTMENT within 5 business days of the identification of a case or suspected case.
- B. **EPIDEMIOLOGY REPORTS REQUIRED:**
1. Kentucky Reportable Disease Report Form – EPID 200 (Rev. Jan/03).
 2. Invasive *Streptococcus pneumoniae* Surveillance Report
- C. **PREVENTION MEASURES:**
- All children aged 23 months should be vaccinated with Pneumococcal Conjugate Vaccine-7, by receiving three doses at intervals of approximately 2 months. Children who begin the series at 6 months will receive a fourth dose at 12 - 15 months.
 - Administer the 23-valent pneumococcal vaccine to high-risk patients.
- C. **PUBLIC HEALTH INTERVENTIONS:**
- Ensure that appropriate isolation precautions are being taken at the facility in which the patient is hospitalized.

III. CONTACTS FOR CONSULTATION

- A. KENTUCKY DEPARTMENT FOR PUBLIC HEALTH, SURVEILLANCE AND HEALTH DATA BRANCH: 502-564-3418.
- B. KENTUCKY DEPARTMENT FOR PUBLIC HEALTH, COMMUNICABLE DISEASE BRANCH: 502-564-3261.
- C. KENTUCKY DEPARTMENT FOR PUBLIC HEALTH, DIVISION OF LABORATORY SERVICES: 502-564-4446.

IV. RELATED REFERENCES

- 1. Chin, James, ed. Pneumococcal pneumonia. In: Control of Communicable Diseases Manual. 17th ed. Washington, DC: American Public Health Association, 2000: 387-390.
- 2. Preventing Pneumococcal Disease Among Infants and Young Children: Recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 2000; 49(No. RR-9): 21-29.
- 3. Pickering, LK, ed. Pneumococcal Infections. In: 2000 Red Book: Report of the Committee on Infectious Diseases. 25th ed. Elk Grove Village, IL: 452-460.
- 4. National Committee for Clinical Laboratory Standards. Performance standards for antimicrobial susceptibility testing. Villanova, PA: National Committee for Clinical Laboratory Standards, 1994; 14(16).